

Title (en)
HYDROXYAPATITE WITH CONTROLLABLE SIZE AND MORPHOLOGY

Title (de)
HYDROXYAPATIT MIT STEUERBARER GRÖSSE UND MORPHOLOGIE

Title (fr)
HYDROXYAPATITE DE DIMENSIONS ET DE MORPHOLOGIE REGULABLES

Publication
EP 1846325 A4 20100421 (EN)

Application
EP 05854856 A 20051221

Priority
• US 2005046209 W 20051221
• US 64108305 P 20050104

Abstract (en)
[origin: WO2006083418A2] A ceramic powder of non-agglomerated non-aggregated phase-pure hydroxyapatite having a controllable morphology. Also presented is a film of phasepure crystalline hydroxyapatite grains having a controllable morphology. Methods for preparing the same are also provided.

IPC 8 full level
C01B 25/16 (2006.01)

CPC (source: EP US)
A61L 27/32 (2013.01 - EP US); **B01J 20/048** (2013.01 - EP US); **B01J 20/28004** (2013.01 - EP US); **B01J 20/28014** (2013.01 - EP US); **B01J 20/28019** (2013.01 - EP US); **B01J 20/282** (2013.01 - EP US); **B01J 20/3071** (2013.01 - EP US); **C01B 25/32** (2013.01 - EP US); **C04B 41/009** (2013.01 - EP US); **C04B 41/5048** (2013.01 - EP US); **C04B 41/87** (2013.01 - EP US); **C23C 18/1208** (2013.01 - EP US); **C04B 2111/00836** (2013.01 - EP US); **Y10T 428/258** (2015.01 - EP US)

Citation (search report)
• [XI] US 2004034141 A1 20040219 - ARAMAKI MASAOKI [JP], et al
• [XI] WO 03000588 A1 20030103 - BASF AG [DE], et al
• [XI] LOPATIN C M ET AL: "Ion-beam densification of hydroxyapatite thin films", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH, SECTION - B:BEAM INTERACTIONS WITH MATERIALS AND ATOMS, ELSEVIER, AMSTERDAM, NL, vol. 145, no. 4, 1 December 1998 (1998-12-01), pages 522 - 531, XP004152237, ISSN: 0168-583X
• [X] TSUTOMU FURUZONO, SHOJI YASUDA, TSUYOSHI KIMURA, SINGO KYOTANI, JUNZO TANAKA, AKIO KISHIDA: "Nano-scaled hydroxyapatite/polymer composite IV. Fabrication and cell adhesion properties of a three-dimensional scaffold made of composite material with a silk fibroin substrate to develop a percutaneous device", JOURNAL OF ARTIFICIAL ORGANS, vol. 7, no. 3, September 2004 (2004-09-01), pages 137 - 144, XP002567015
• [X] FURUKAWA T ET AL: "Biodegradation behavior of ultra-high-strength hydroxyapatite/poly (l-lactide) composite rods for internal fixation of bone fractures", BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 21, no. 9, 1 May 2000 (2000-05-01), pages 889 - 898, XP004202454, ISSN: 0142-9612
• [XI] KOTHAPALLI C ET AL: "Influence of temperature and concentration on the sintering behavior and mechanical properties of hydroxyapatite", ACTA MATERIALIA, ELSEVIER, OXFORD, GB, vol. 52, no. 19, 8 November 2004 (2004-11-08), pages 5655 - 5663, XP004595504, ISSN: 1359-6454
• [XI] RIMAN R E ET AL: "Solution synthesis of hydroxyapatite designer particulates", SOLID STATE IONICS, NORTH HOLLAND PUB. COMPANY, AMSTERDAM; NL, NL, vol. 151, no. 1-4, 1 November 2002 (2002-11-01), pages 393 - 402, XP004393814, ISSN: 0167-2738
• See references of WO 2006083418A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006083418 A2 20060810; WO 2006083418 A3 20071025; EP 1846325 A2 20071024; EP 1846325 A4 20100421; US 2008206554 A1 20080828; US 7998219 B2 20110816

DOCDB simple family (application)
US 2005046209 W 20051221; EP 05854856 A 20051221; US 81336805 A 20051221